FUJITSU

SPLIT TYPE
ROOM AIR CONDITIONER
**WALL MOUNTED type**

# SERVICE MANUAL

Refrigerant R410A

**Models**

| Indoor unit | Outdoor unit |
|---|---|
| ASU30CLX | AOU30CLX |
| ASU36CLX | AOU36CLX |

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FUJITSU GENERAL LIMITED

# SPECIFICATIONS

| | | |
|---|---|---|
| INDOOR UNIT | ASU30CLX | ASU36CLX |
| OUTDOOR UNIT | AOU30CLX | AOU36CLX |
| COOLING CAPACITY | 30,700 BTU/hr | 33,100 BTU/hr |

## ELECTRICAL DATA

| | | |
|---|---|---|
| POWER SOURCE | 208 V / 230 V | 208 V / 230 V |
| FREQUENCY | 60 Hz | 60 Hz |
| RUNNING CURRENT | 15.2 A | 17.7 A |
| INPUT WATTS | 3,460 W | 4,040 W |
| SEER | 15.0 | 15.0 |
| MOISTURE REMOVAL | 9.7 Pts/hr (4.6 L/hr) | 10.1 Pts/hr (4.8 L/hr) |
| AIR CIRCULATION-High | 1,100 $m^3$/hr | 1,200 $m^3$/hr |

## COMPRESSOR

| | | |
|---|---|---|
| TYPE | | Hermetic type, Permanent split condenser,<br>2 pole, Single phase, Induction motor |
| DISCRIMINATION | | 5KD240XAD21 |
| POWER SOURCE | | 208 V / 230 V 60Hz |
| REFRIGERANT | R-410A | 4 lb.10 oz ( 2,100 g ) |

## FAN MOTOR

| | | | |
|---|---|---|---|
| POWER SOURCE | | 208 V / 230 V | 208 V / 230 V |
| INDOOR UNIT | HIGH | 1,330 r.p.m. | 1,430 r.p.m. |
| | MED | 1,120 r.p.m. | 1,120 r.p.m. |
| | LOW | 940 r.p.m. | 940 r.p.m. |
| | QUIET | 830 r.p.m. | 830 r.p.m. |
| OUTDOOR UNIT | | 850 r.p.m. | 850 r.p.m. |

## DIMENSIONS

| | | |
|---|---|---|
| INDOOR UNIT | H x W x D | 12-5/8 x 39-1/4 x 9 inch |
| | | 320 x 998 x 228 mm |
| OUTDOOR UNIT | H x W x D | 32-3/4 x 35-3/8 x 13 inch |
| | | 830 x 900 x 300 mm |

## WEIGHT

| | | | |
|---|---|---|---|
| INDOOR UNIT | Gross / Net | 40 / 31 lbs. (18 / 14 kg ) | |
| OUTDOOR UNIT | Gross / Net | 155 / 137 lbs. (70 / 62 kg ) | 155 / 137 lbs. (70 / 62 kg ) |

## NOISE LEVEL

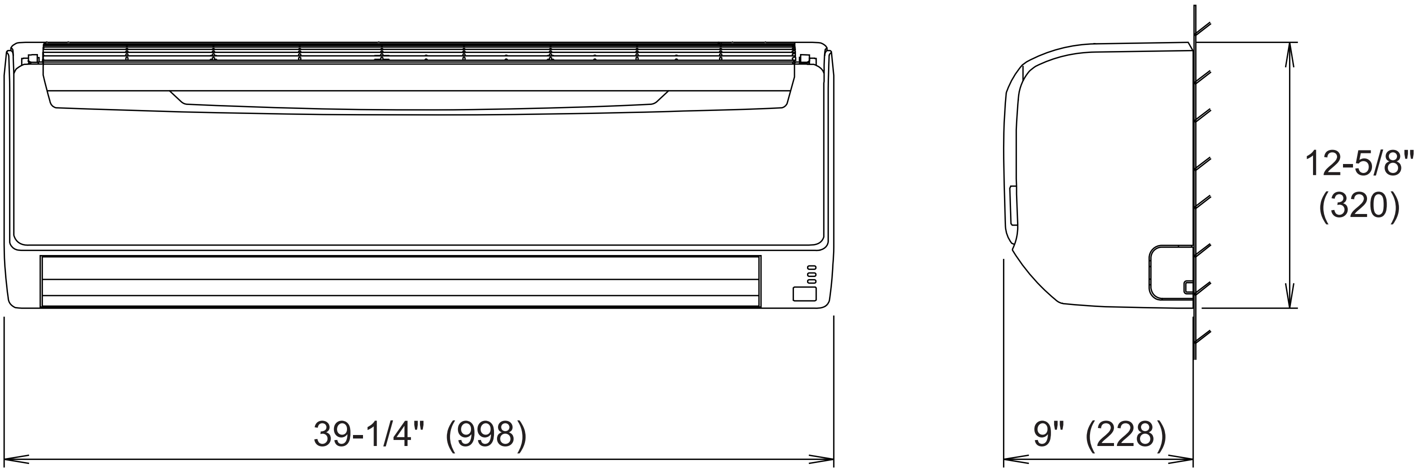
| | | | |
|---|---|---|---|
| INDOOR UNIT | HIGH | 47 dB | 49 dB |
| | MED | 41 dB | 41 dB |
| | LOW | 36 dB | 36 dB |
| | QUIET | 32 dB | 32 dB |
| OUTDOOR UNIT | | 53 dB | 54 dB |

## OUTLINE AND DIMENSIONS

Unit : inch (mm)

### INDOOR UNIT

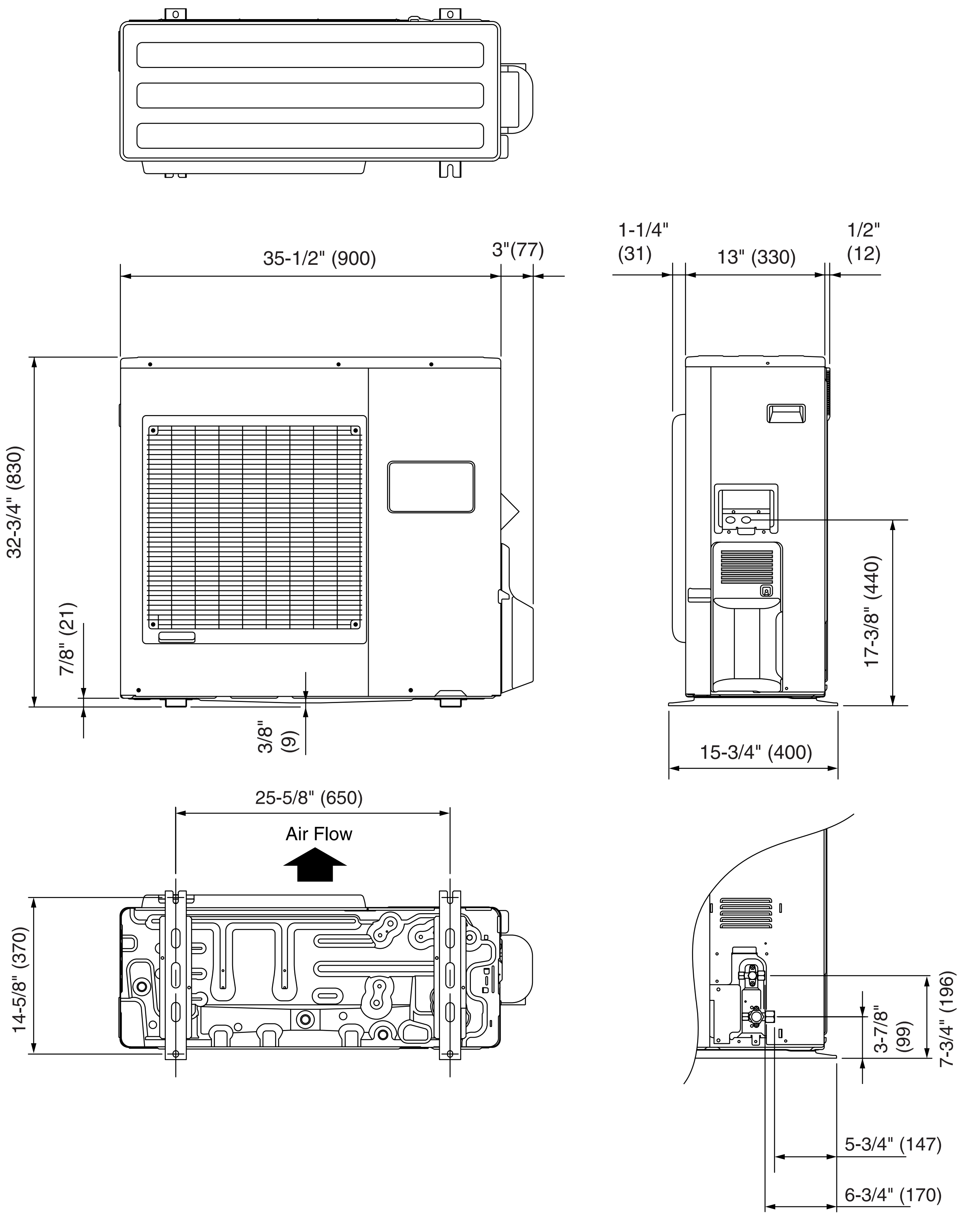
**Model : ASU30CLX, ASU36CLX**



**OUTDOOR UNIT**

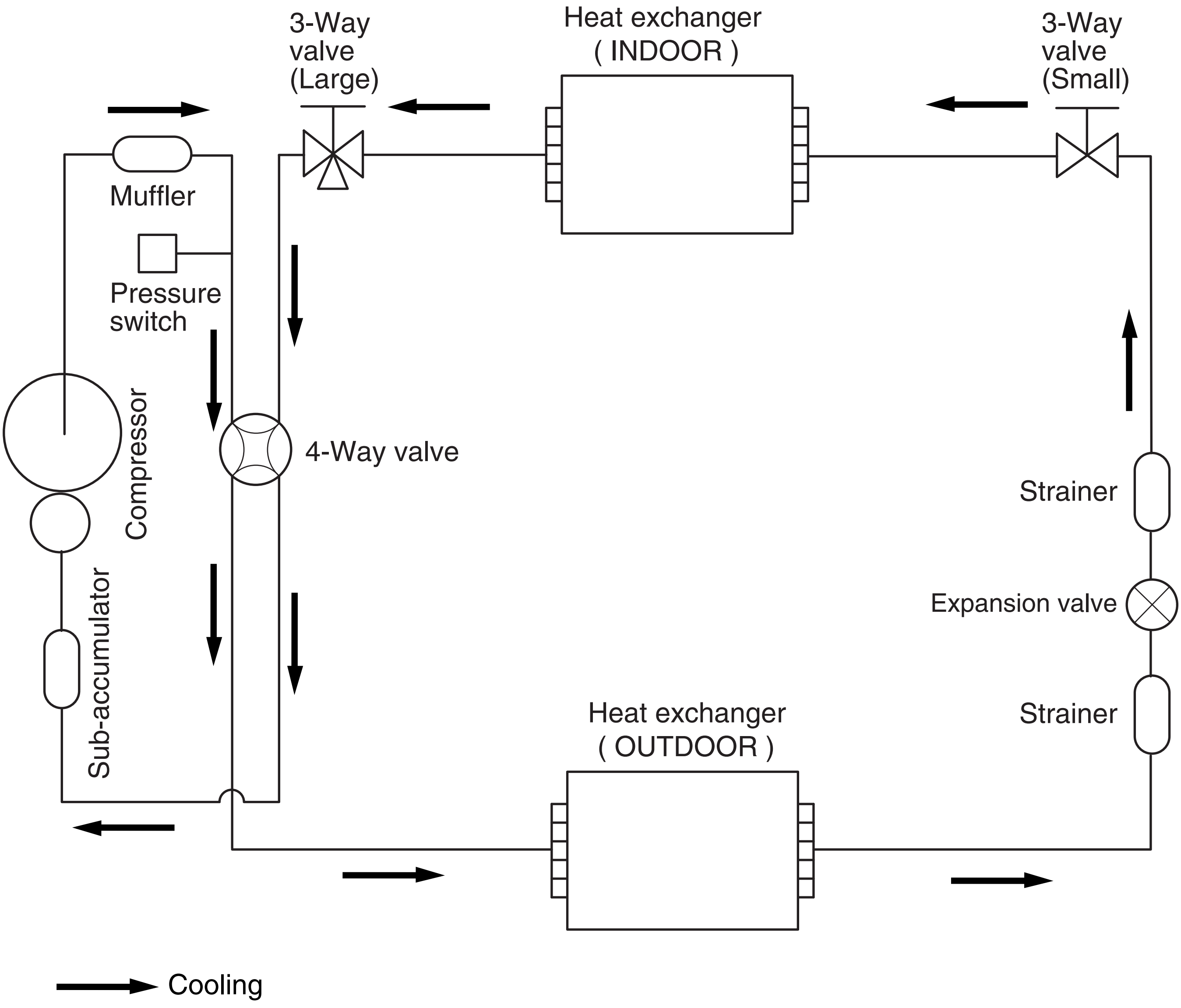
Models : AOU30CLX, AOU36CLX

Unit : inch (mm)



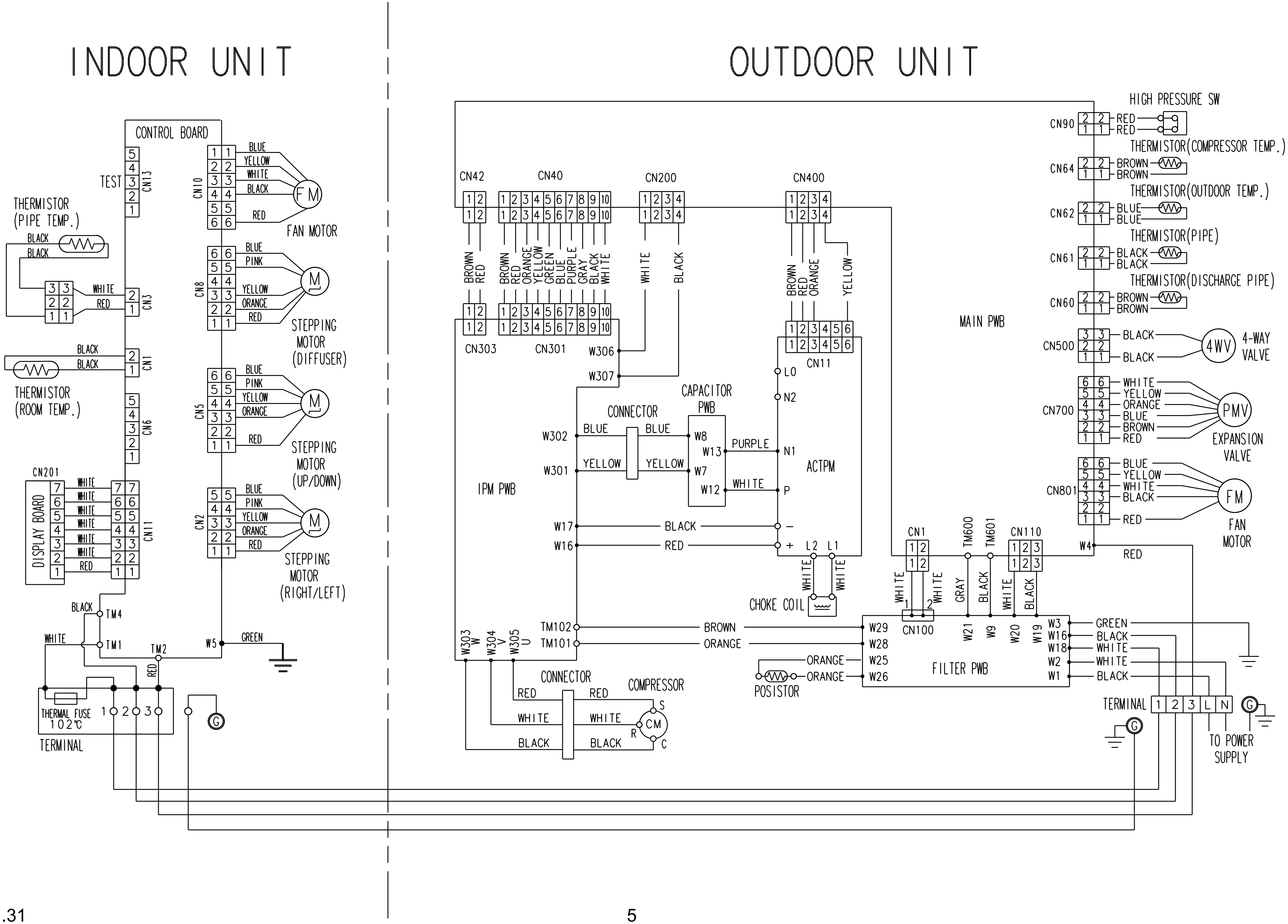
# REFRIGERANT SYSTEM DIAGRAM

**Models : ASU30CLX / AOU30CLX**
**ASU36CLX / AOU36CLX**



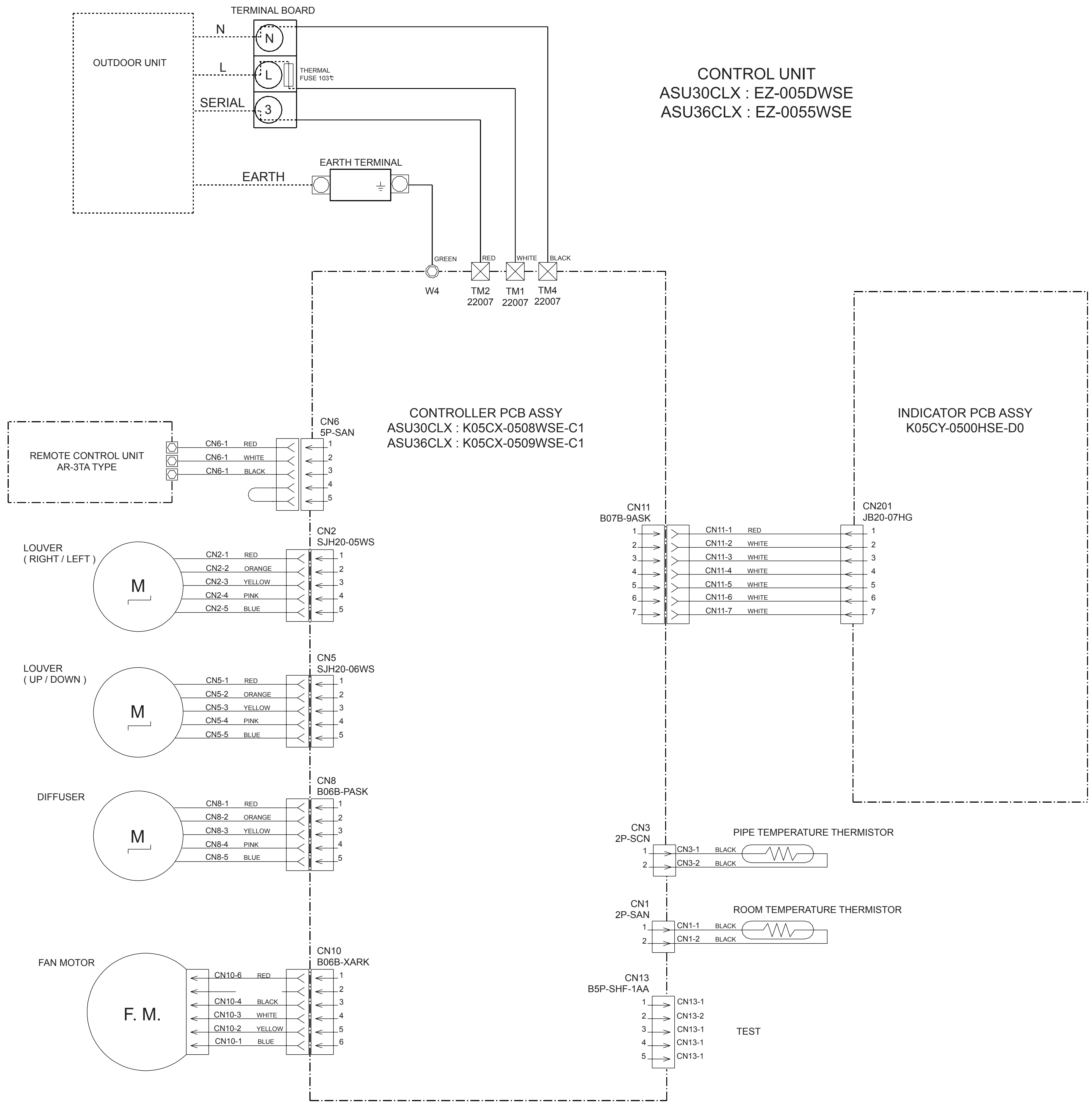

Refrigerant pipe diameter
Liquid : 3/8" (9.52 mm)
Gas : 5/8" (15.88 mm)

# CIRCUIT DIAGRAM



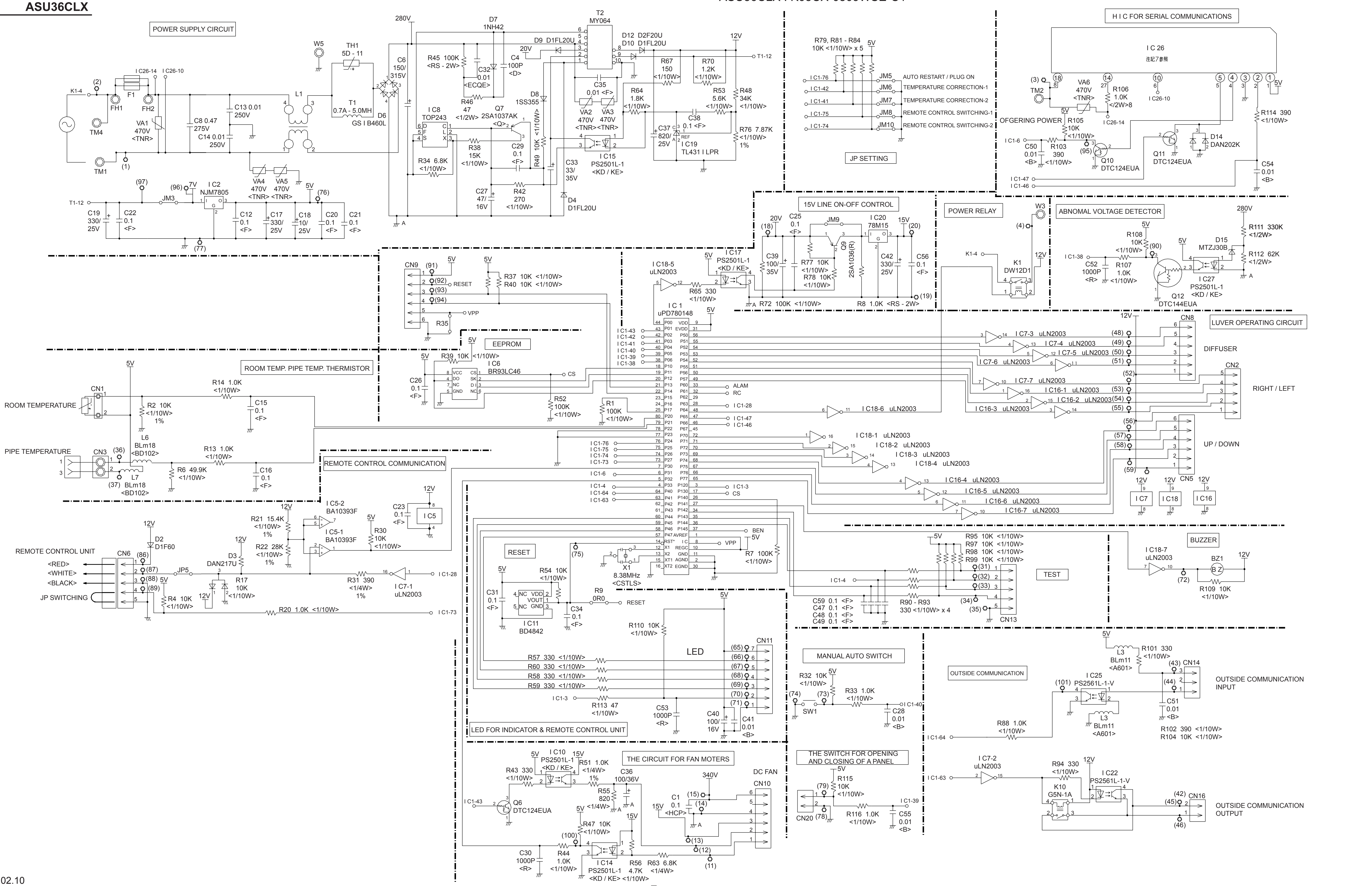
# INDOOR PRINTED CIRCUIT BOARD
# CIRCUIT DIAGRAM

**Models : ASU30CLX**
**ASU36CLX**



**Models : ASU30CLX**
**ASU36CLX**

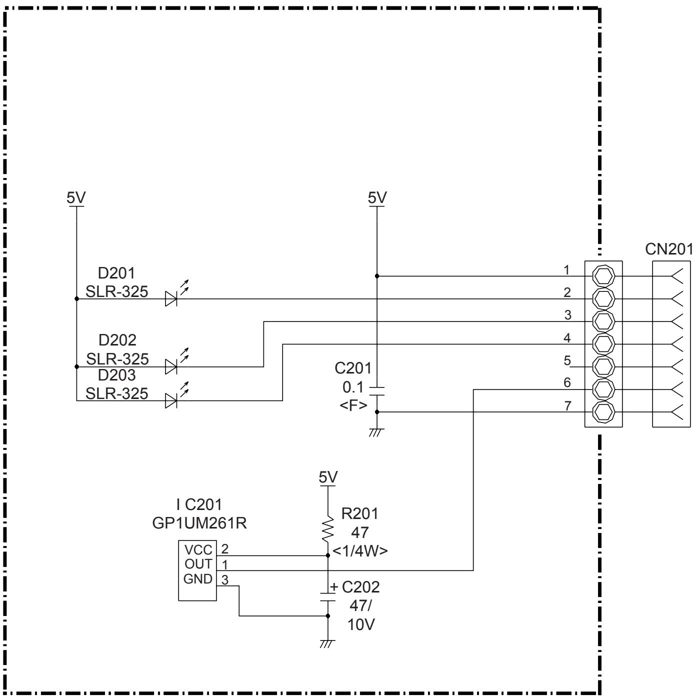
# CONTROLLER PCB ASSY
ASU30CLX : K05CX-0508WSE-C1
ASU36CLX : K05CX-0509WSE-C1




2006.02.10

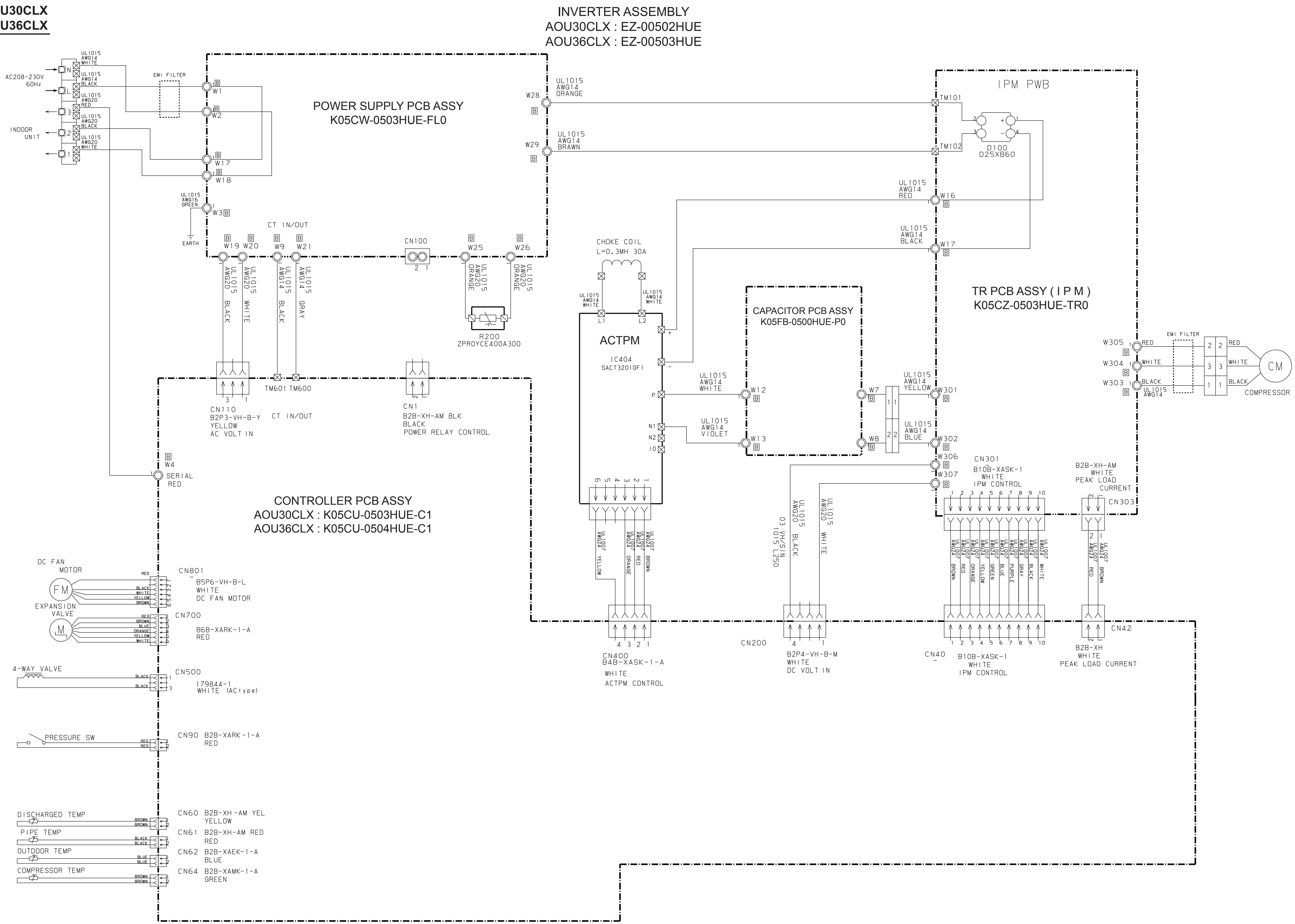
Models : ASU30CLX
ASU36CLX

INDICATOR PCB ASSY
K05CY-0500HSE-D0



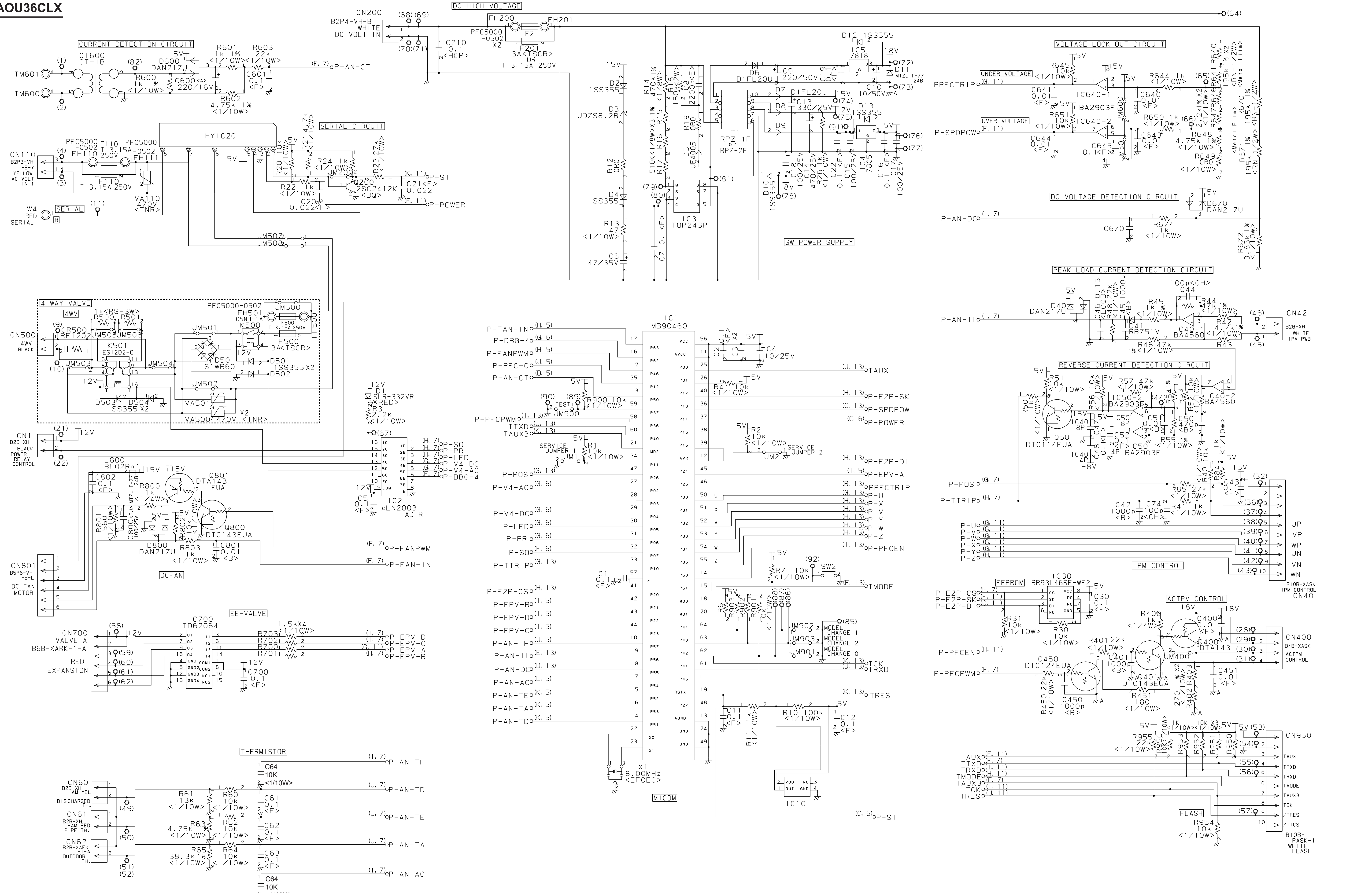
# OUTDOOR PRINTED CIRCUIT BOARD
# CIRCUIT DIAGRAM

**Models : AOU30CLX**
**AOU36CLX**



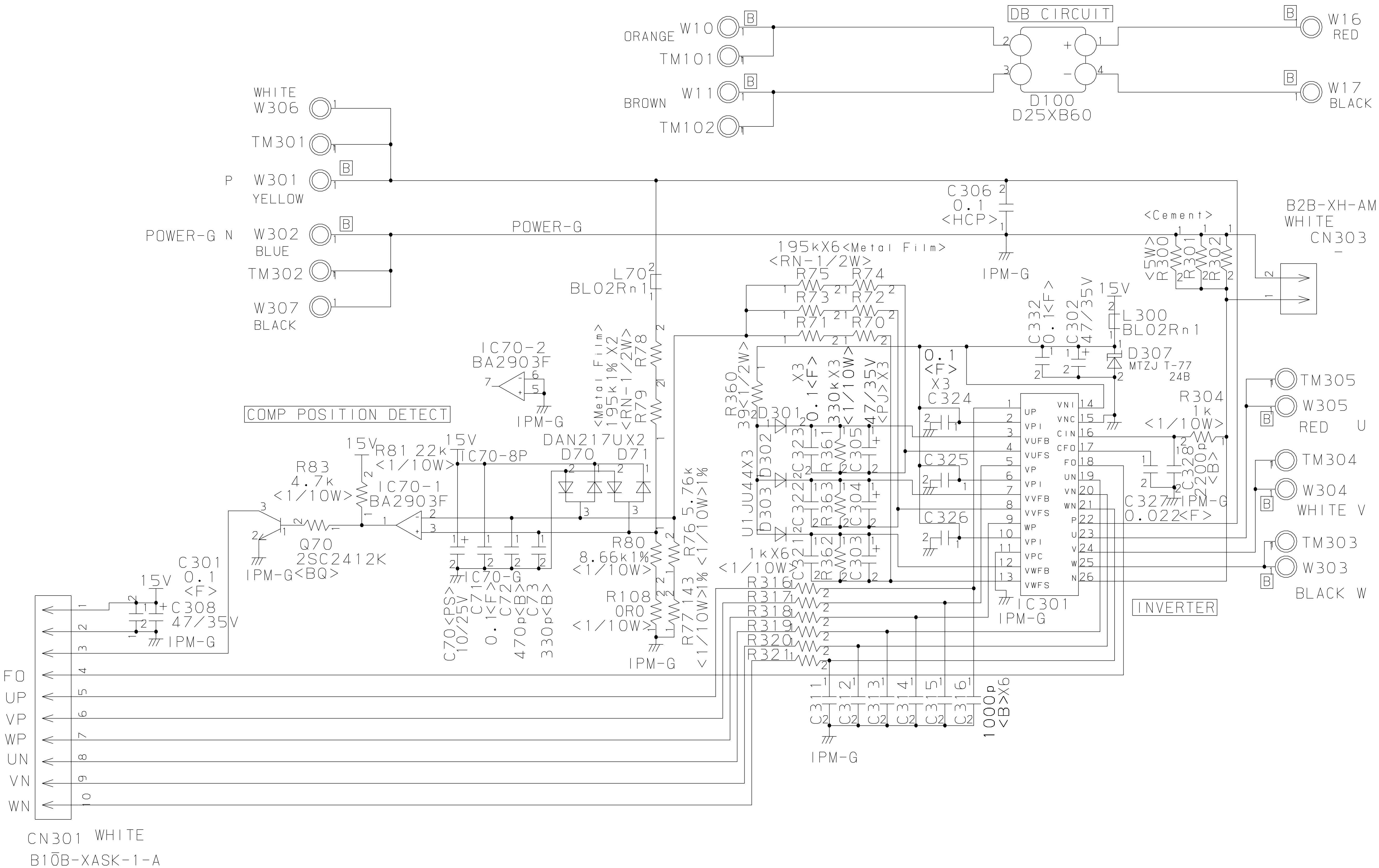
**Models : AOU30CLX**
**AOU36CLX**

## CONTROLLER PCB ASSY
AOU30CLX : K05CU-0503HUE-C1
AOU36CLX : K05CU-0504HUE-C1



**Models : AOU30CLX**
**AOU36CLX**

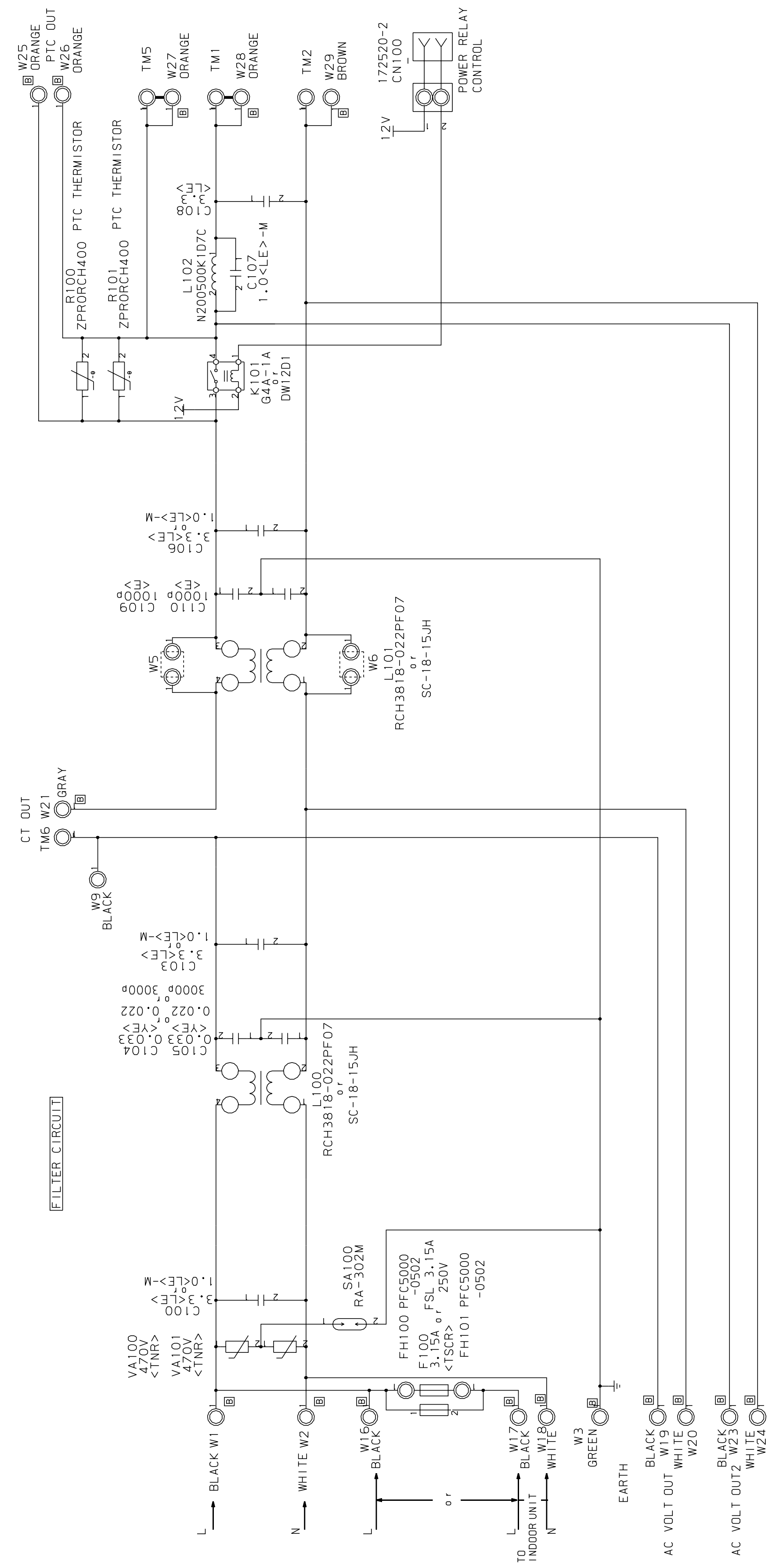
# TR PCB ASSY ( I P M )
## K05CZ-0503HUE-TR0




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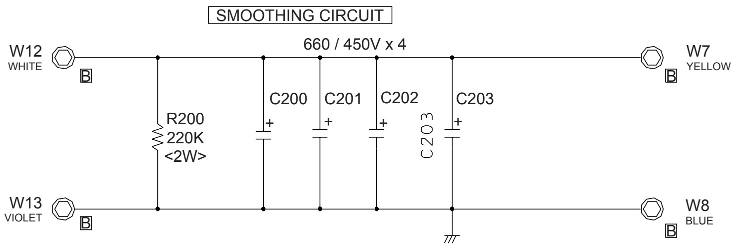
## Models :AOU30CLX
## AOU36CLX

POWER SUPPLY PCB
K05CW-0503HUE-FL0



# Models : AOU30CLX
# AOU36CLX

## CAPACITOR PCB ASSEMBLY
## K05FB-0500HUE-P0





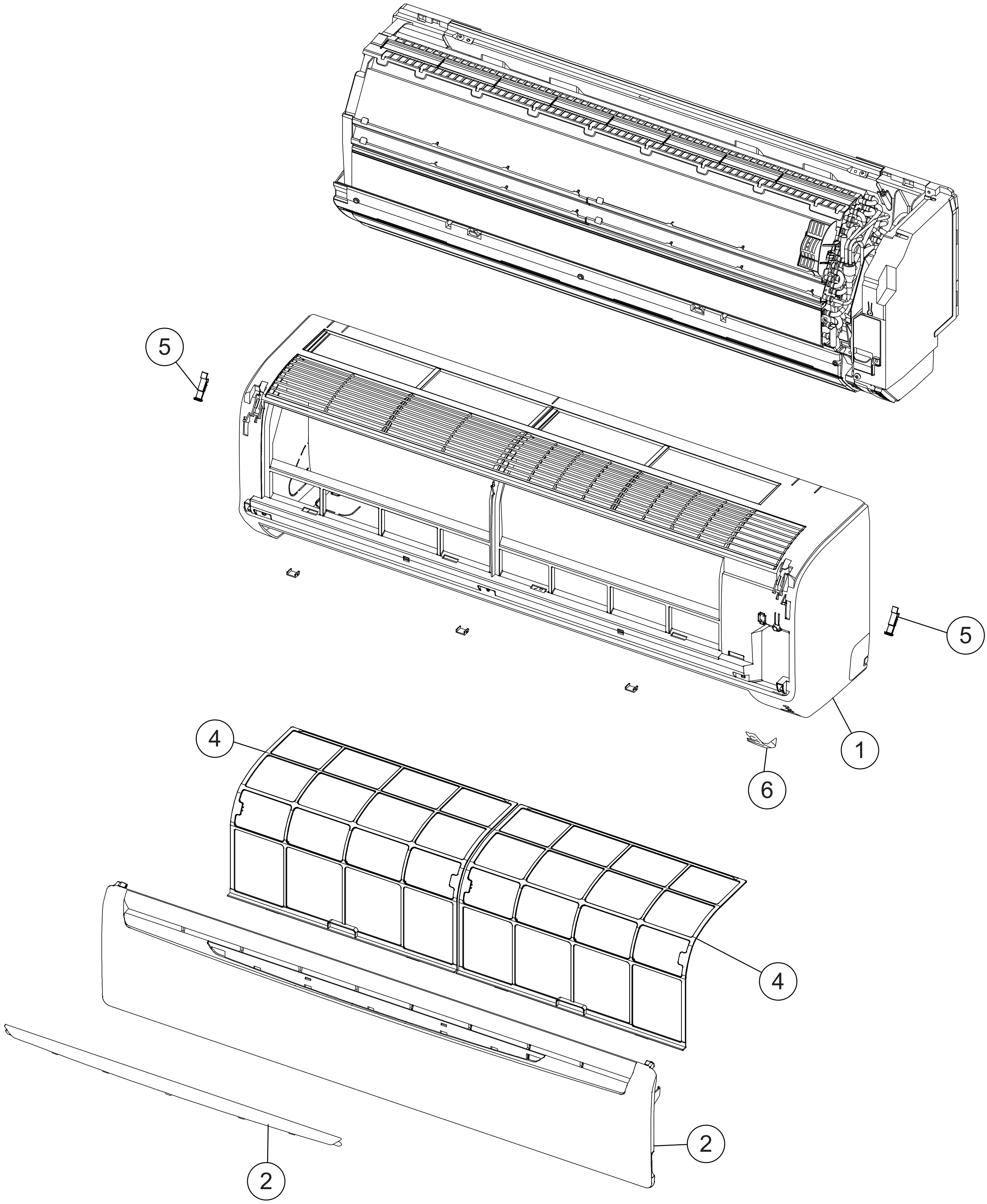

2006.02.10

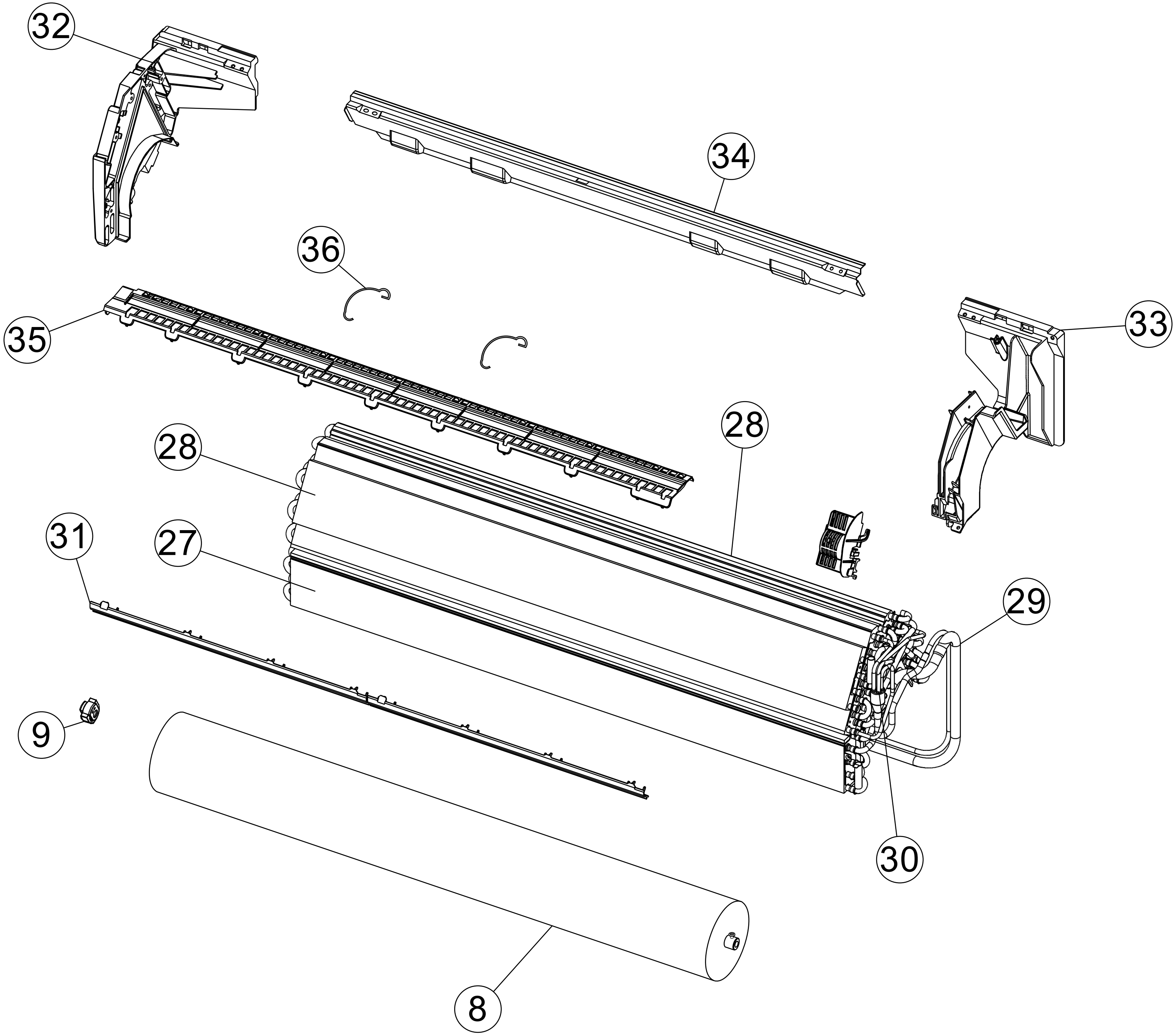
# ERROR CONTENTS

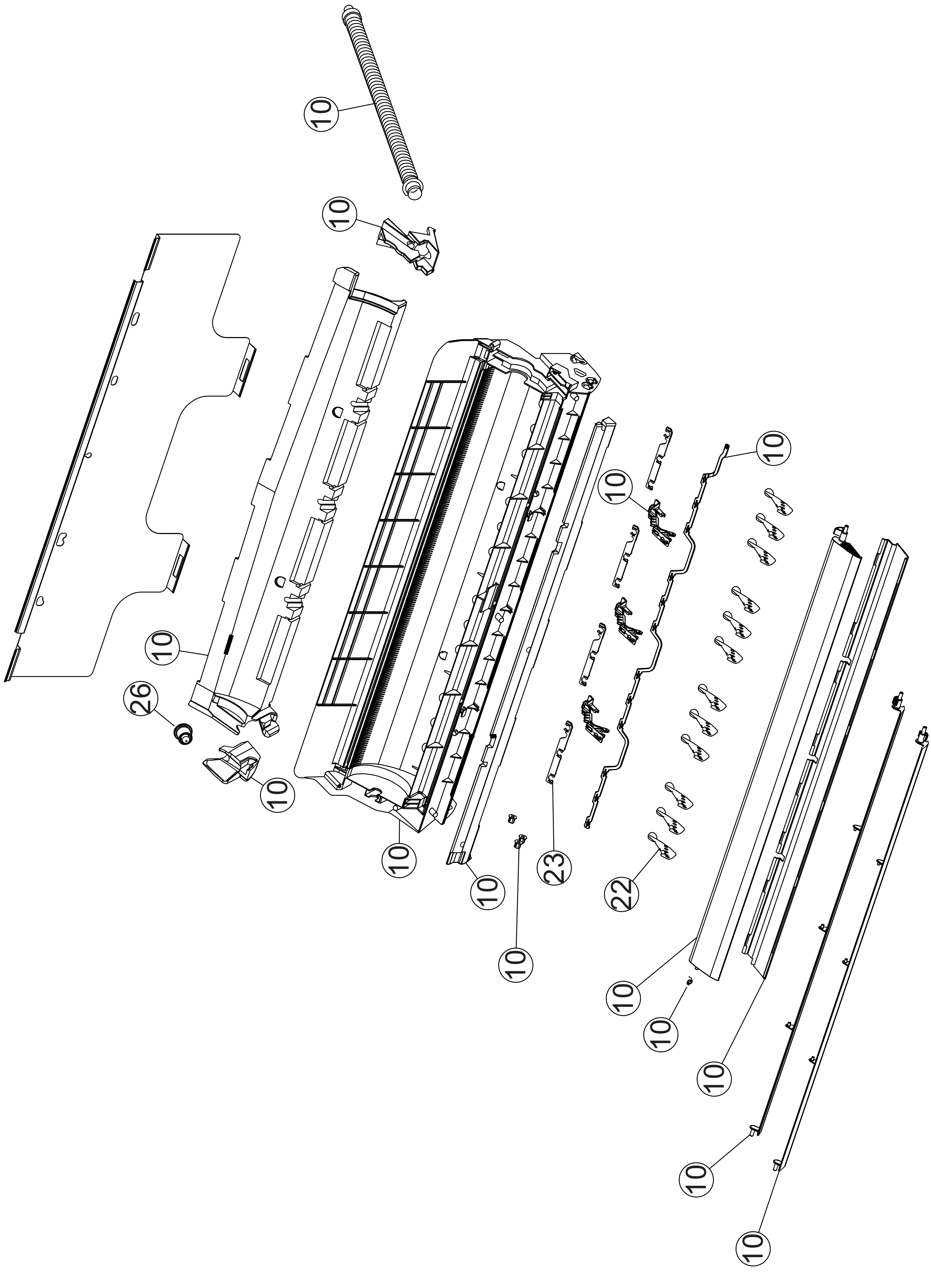
| Error | Display | | Error |
|---|---|---|---|
| | Operation LED | Timer LED | |
| Serial signal error | Normal | 2 flash | Serial signal (reverse) error, at operation start up |
| | | 3 flash | Serial signal (reverse) error, during oeration |
| | | 4 flash | Serial signal (forward) error, at operation start up |
| | | 5 flash | Serial signal (forward) error, during operation |
| | | 8 flash | Wired remote controller error |
| Indoor unit thermistor error | 2 flash | 2 flash | Indoor temperature thermistor open / short |
| | | 3 flash | Heat exchanger middle thermistor open / short |
| Outdoor unit thermistor error | 3 flash | 2 flash | Discharge thermistor open / short |
| | | 3 flash | Heat exchanger thermistor open |
| | | 4 flash | Outdoor temperature thermistor open / short |
| | | 8 flash | Compressor temperature thermistor open / short |
| Indoor unit control error | 4 flash | 2 flash | Forced automatic SW welded |
| | | 3 flash | Main relay welded |
| | | 4 flash | Power interruption error |
| | | 7 flash | VDD permanent stop protection |
| | | 8 flash | reverse VDD permanent stop protection |
| Outdoor unit control error | 5 flash | 2 flash | Current trip error |
| | | 3 flash | CT abnormal |
| | | 5 flash | Compressor location detection error |
| | | 6 flash | Outdoor unit fan drive system abnormal |
| Indoor fan motor error | 6 flash | 2 flash | Abnormal lock |
| | | 3 flash | Abnormal rotation |
| Refrigerant cycle error | 7 flash | 2 flash | Discharge Temperature abnormal |
| | | 3 flash | Cooling high pressure abnormal rise |
| | | 5 flash | Pressure switch trouble |
| Optional function error | 8 flash | 2 flash | Active filter voltage trouble (second time) |
| | | 3 flash | Active filter voltage trouble (first time) |
| | | 4 flash | PFC circuit error |
| Model error | Blinking | Blinking | Model error |

# DISASSEMBLY ILLUSTRATION

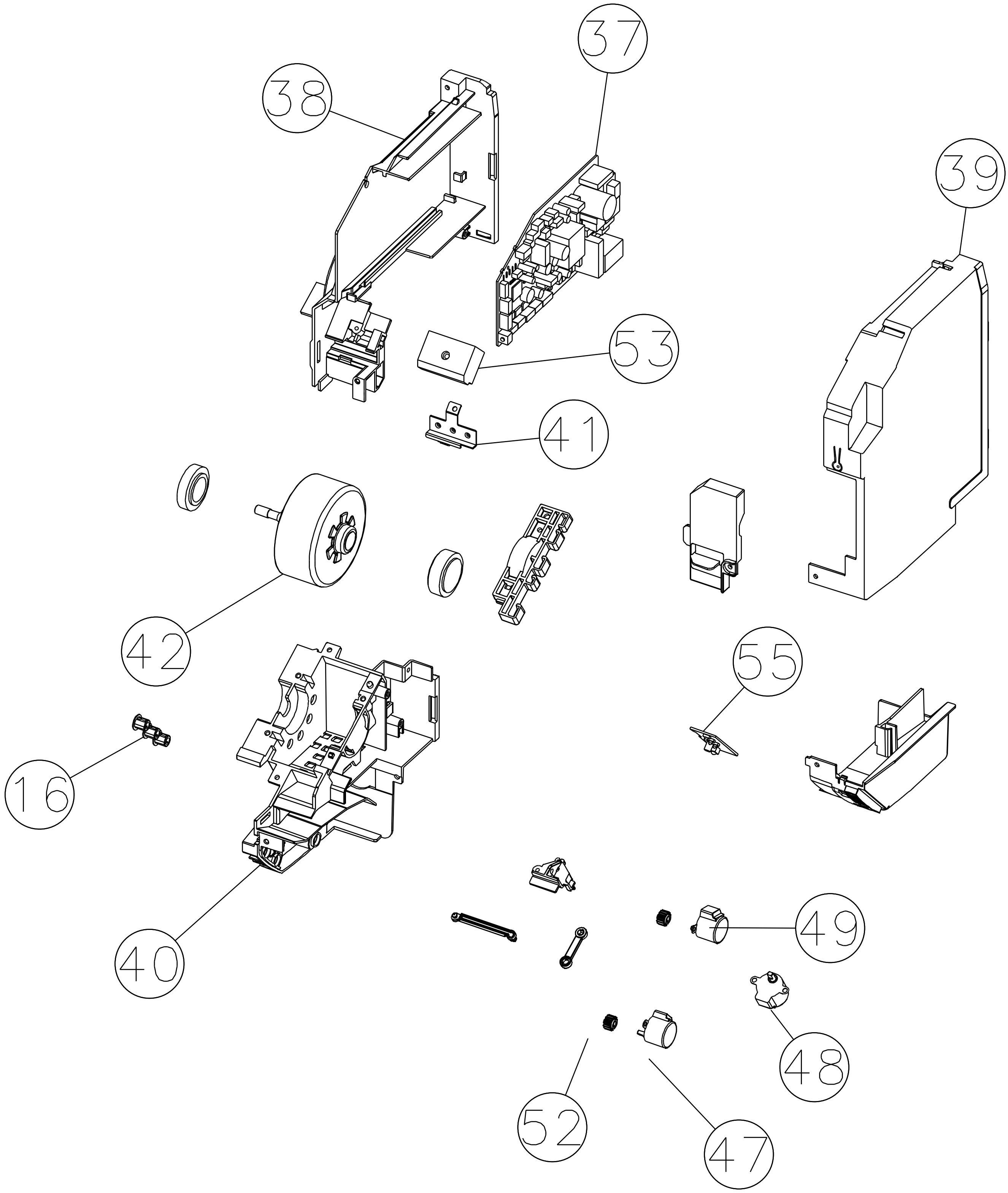
Models：ASU30CLX，ASU36CLX



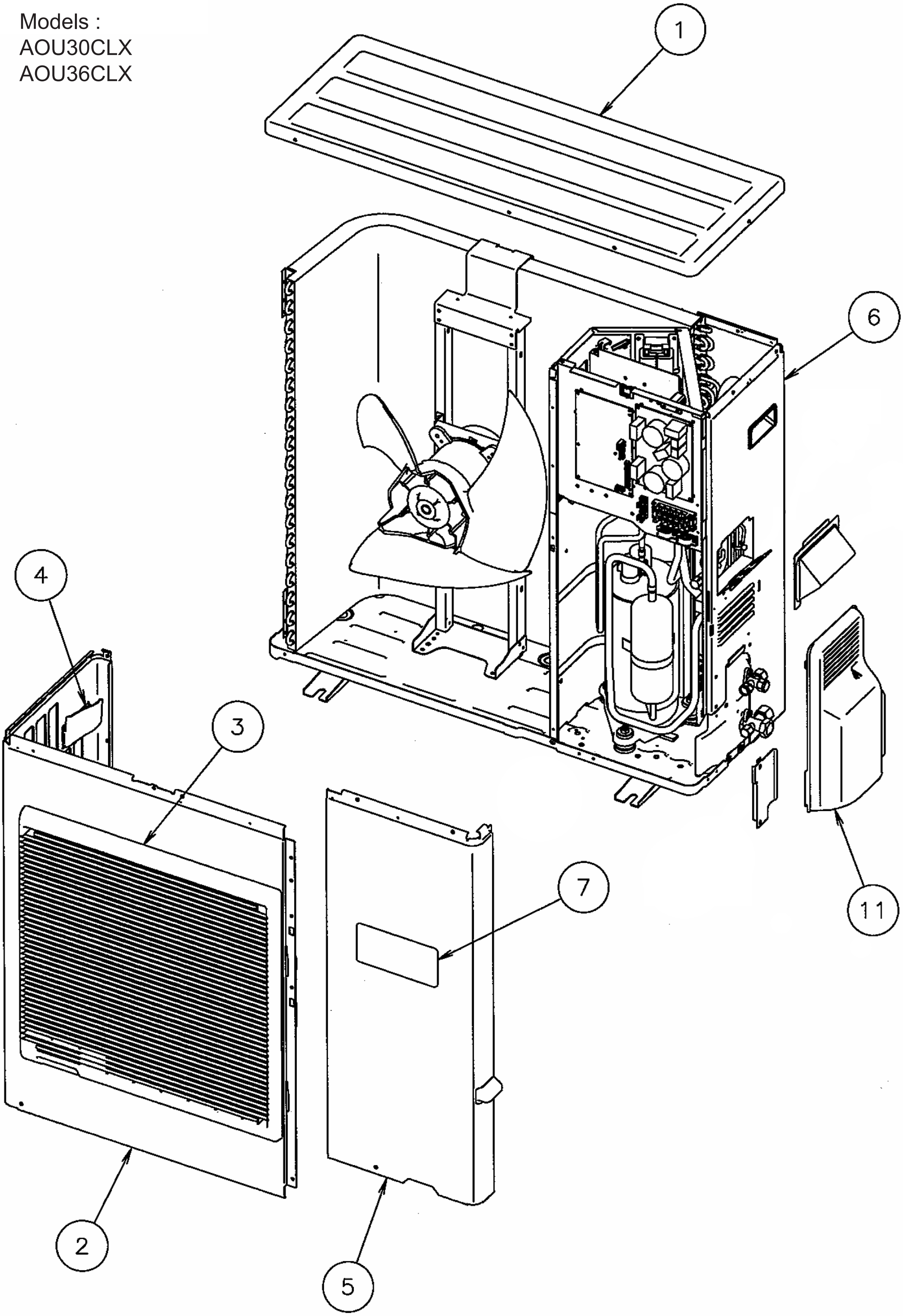

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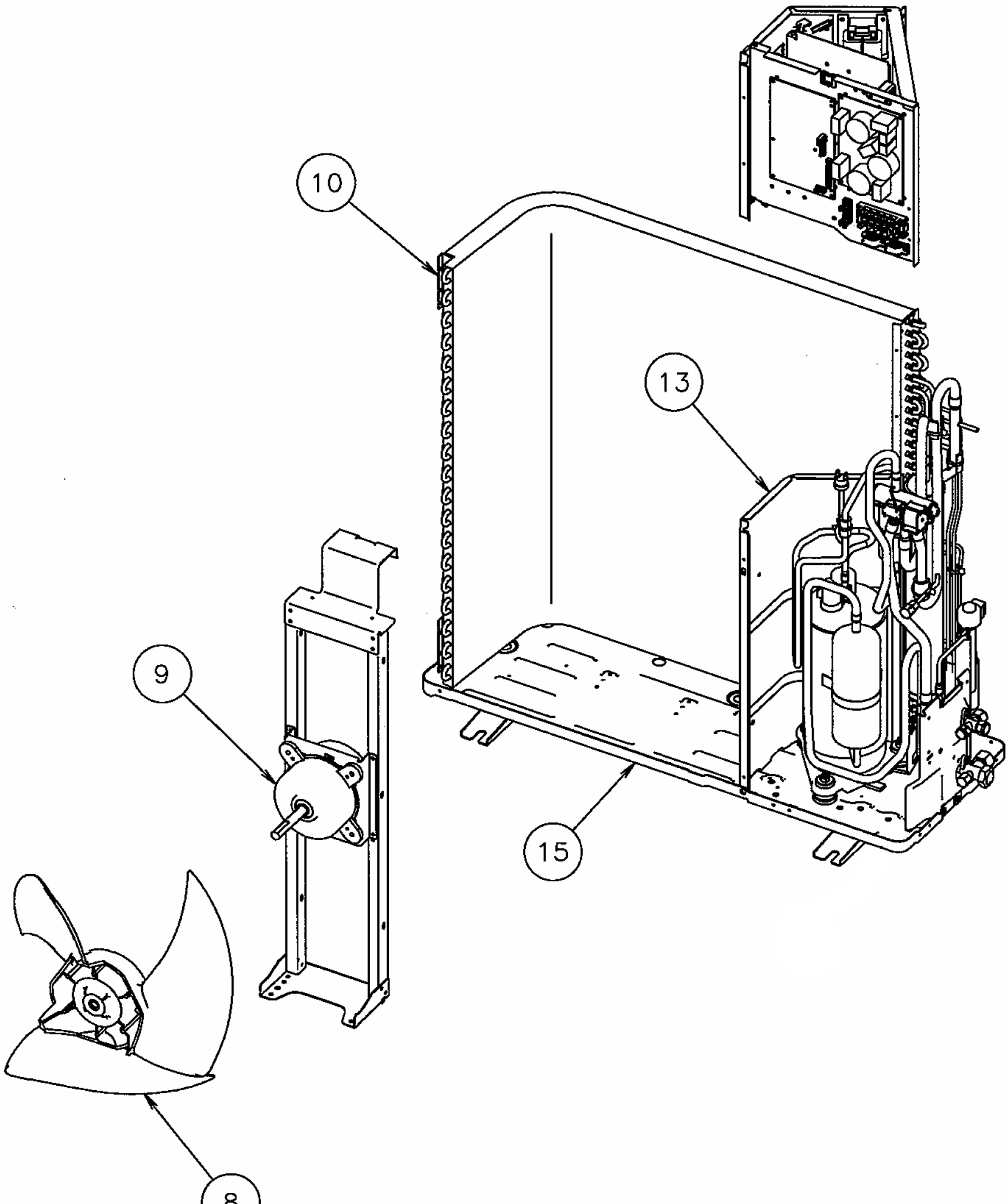

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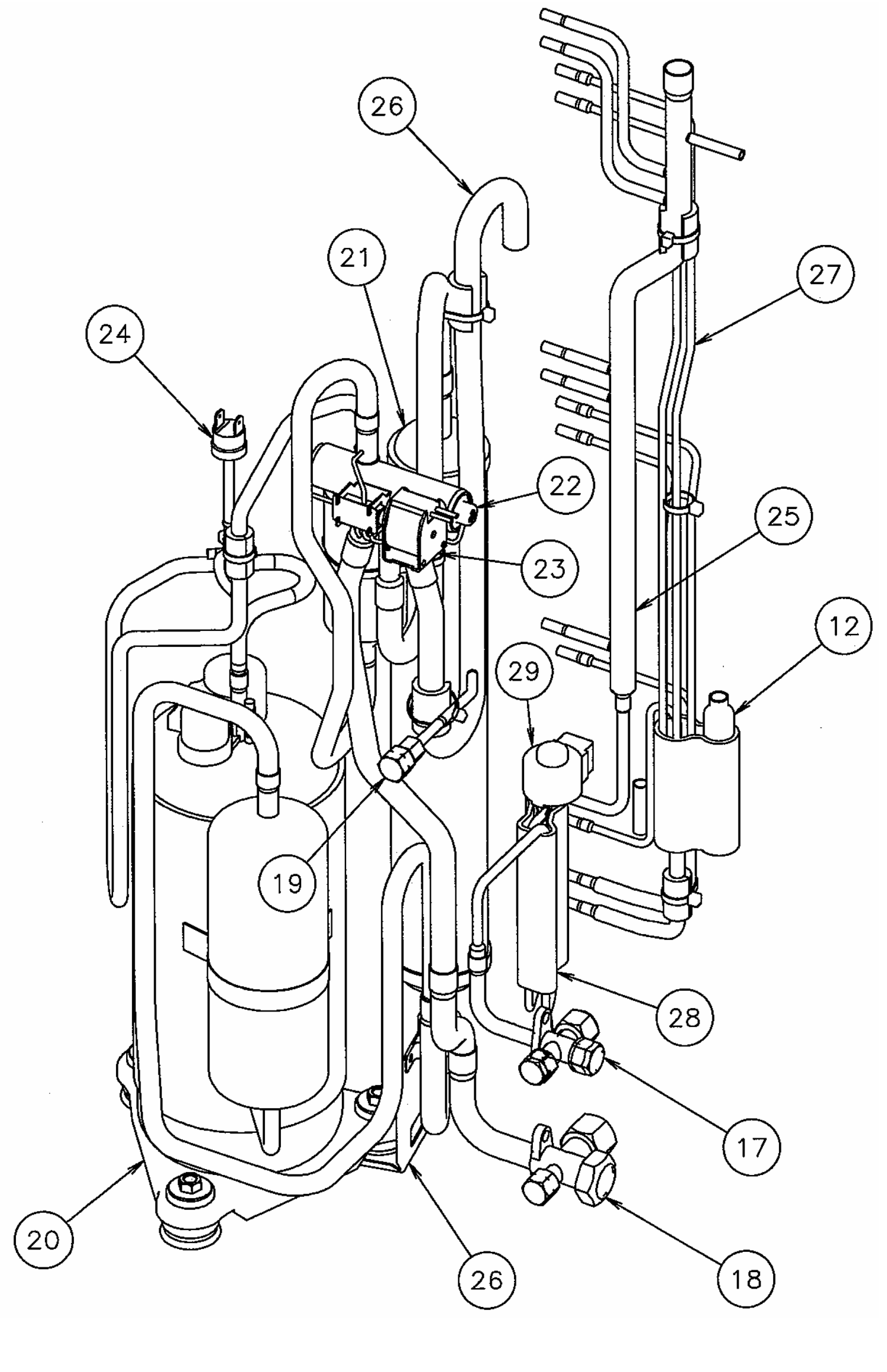
Models : ASU30CLX, ASU36CLX

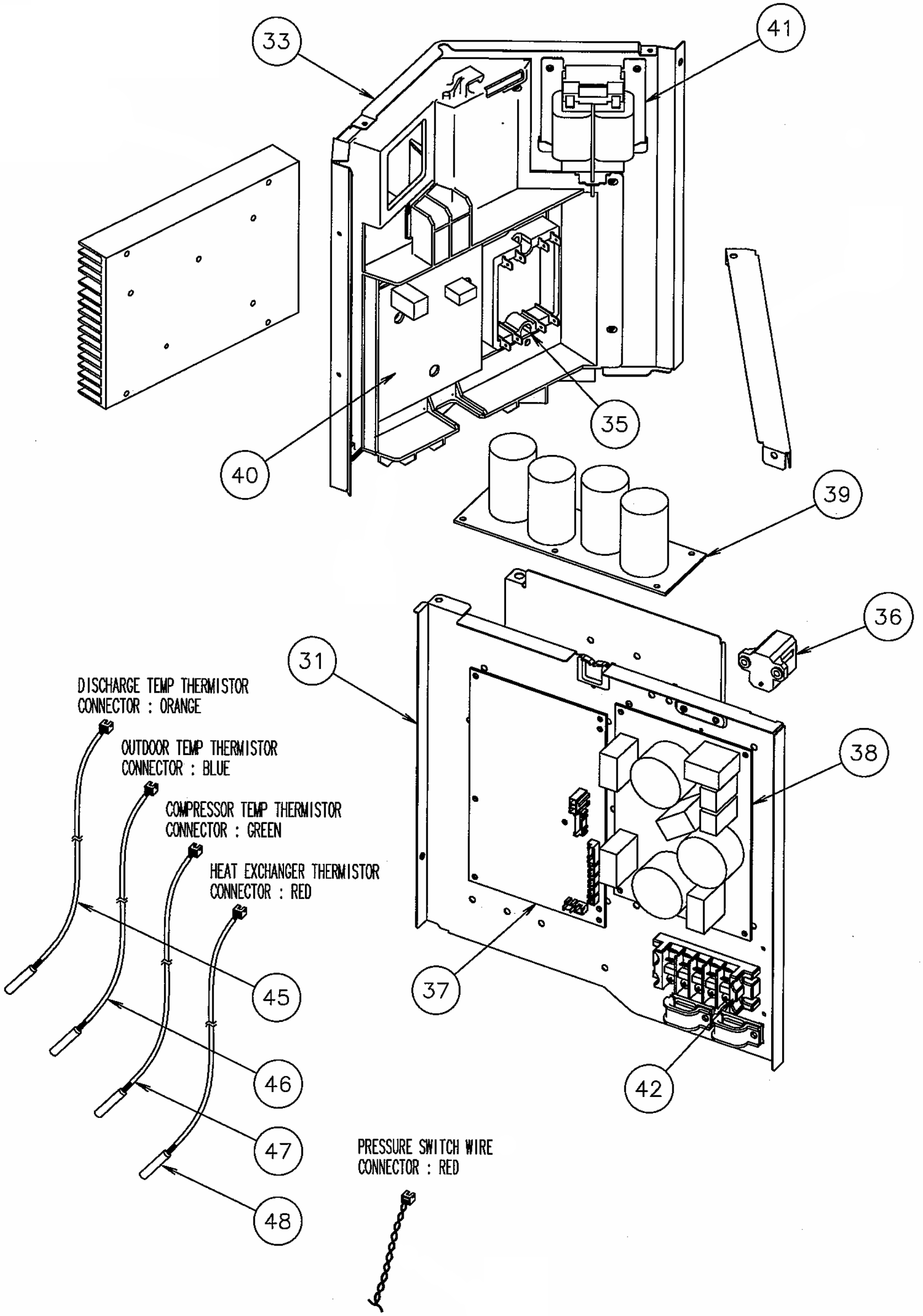


Models :
AOU30CLX
AOU36CLX




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DISCHARGE TEMP THERMISTOR
CONNECTOR : ORANGE
OUTDOOR TEMP THERMISTOR
CONNECTOR : BLUE
COMPRESSOR TEMP THERMISTOR
CONNECTOR : GREEN
HEAT EXCHANGER THERMISTOR
CONNECTOR : RED
PRESSURE SWITCH WIRE
CONNECTOR : RED

# PARTS LIST

## INDOOR UNIT

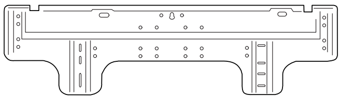
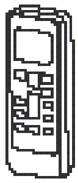
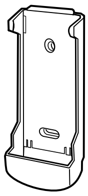
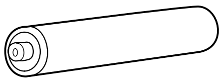
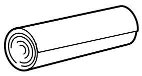
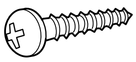
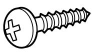
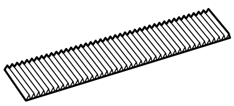
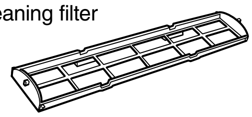
| Ref. No. | Description | Part No. | | Ord. Q'ty |
|---|---|---|---|---|
| | | ASU30CLX | ASU36CLX | |
| 1 | FRONT PANEL TOTAL ASSY | 9315335036 | 9315335036 | |
| 2 | INTAKE GRILLE ASSY | 9315336026 | 9315336026 | |
| 4 | AIR FILTER | 9315014016 | 9315014016 | |
| 5 | CLAMPER(GRILLE) | 9306755010 | 9306755010 | |
| 6 | RECEIVER WINDOW | 9315010018 | 9315010018 | |
| 8 | CROSSFLOW FAN ASSY | 9315024015 | 9315024015 | |
| 9 | BEARING C ASSY | 9306628017 | 9306628017 | |
| 10 | CASING ASSY | 9315331021 | 9315331021 | |
| 22 | R AND L LOUVER | 9311997016 | 9311997016 | |
| 23 | SPACER B | 9312441013 | 9312441013 | |
| 26 | DRAIN CAP | 9367677009 | 9367677009 | |
| 27 | EVAPORATOR ASSY | 9315348012 | 9315348012 | |
| 28 | EVAPORATOR ASSY B | 9315349019 | 9315349019 | |
| 29 | CONNECTION PIPE ASSY | 9315355010 | 9315355010 | |
| 30 | DISTRIBUTOR ASSY | 9315351012 | 9315351012 | |
| 31 | WATER SEAL | 9315251015 | 9315251015 | |
| 32 | EVAPORATER HOLDER R | 9314994012 | 9314994012 | |
| 33 | EVAPORATER HOLDER L | 9314995019 | 9314995019 | |
| 34 | REAR BRACKET | 9315022011 | 9315022011 | |
| 35 | FILTER GUIDE | 9315013019 | 9315013019 | |
| 36 | FILTER GUARD | 9315411013 | 9315411013 | |
| 37 | Controller PCB ASSY | 9707090093 | 9707090109 | |
| 38 | CONTROL BOX | 9314996023 | 9314996023 | |
| 39 | CONTROL COVER | 9314997020 | 9314997020 | |
| 40 | CASE(MOTOR) | 9314998027 | 9314998027 | |
| 41 | TERMINAL(EARTH) | 9315028013 | 9315028013 | |
| 42 | MOTOR,DC BRUSHLESS | 9602163014 | 9601924029 | |
| 46 | MOTOR,STEP | 9900384029 | 9900384029 | |
| 47 | MOTOR,STEP | 9900384036 | 9900384036 | |
| 48 | MOTOR,STEP | 9900139063 | 9900139063 | |
| 52 | GEAR A | 9309994003 | 9309994003 | |
| 53 | TERMINAL | 9900385019 | 9900385019 | |
| 55 | PWB ASSY(DISPLAY) | 9707210019 | 9707210019 | |


When you order parts, please make a photocopy of this page and fill the number of the parts in the "Order" column.

OUTDOOR UNIT

| Ref. No. | Description | Part No. | | Ord. Q'ty |
|---|---|---|---|---|
| | | AOU30CLX | AOU36CLX | |
| 1 | TOP PANEL SUB ASSY | 9374417032 | 9374417032 | |
| 2 | FRONT PANEL M | 9374094066 | 9374094066 | |
| 3 | FAN GUARD | 9374330010 | 9374330010 | |
| 4 | GRIP SIDE | 9374173013 | 9374173013 | |
| 5 | SERVICE PANEL SA | 9374415052 | 9374415052 | |
| 6 | RIGHT PANEL | 9374095148 | 9374095148 | |
| 7 | EMBLEM-REAR | 9351355005 | 9351355005 | |
| 8 | PROPELLER FAN ASSY | 9366378020 | 9366378020 | |
| 9 | MOTOR,DC BRUSHLESS | 9602114016 | 9602114016 | |
| 10 | CONDENSER A ASSY | 9374433148 | 9374433148 | |
| 11 | VALVE COVER | 9374174010 | 9374174010 | |
| 12 | STRAINER ASSY | 9372524015 | 9372524015 | |
| 13 | SEPA WALL W | 9374413133 | 9374413133 | |
| 15 | BASE AS PTD | 9374166138 | 9374166138 | |
| 17 | 3-WAY VALVE ASSY | 9372205044 | 9372205044 | |
| 18 | 3-WAY VALVE ASSY | 9372205075 | 9372205075 | |
| 19 | CHECK JOINT ASSY | 9372802038 | 9372802038 | |
| 20 | COMPRESSOR ASSY | 9372558126 | 9372558126 | |
| 21 | ACCUMULATOR | 9385005006 | 9385005006 | |
| 22 | 4-WAY VALVE | 9900164010 | 9900164010 | |
| 23 | SOLENOID | 9900165079 | 9900165079 | |
| 24 | PRESSURE SWITCH | 9900186012 | 9900186012 | |
| 25 | INLET PIPE(COND)A ASSY | 9373461067 | 9373461067 | |
| 26 | ACCUMULATOR SUPPORT ASSY | 313986353804 | 313986353804 | |
| 27 | OUTLET PIPE(COND)A ASSY | 9374266104 | 9374266104 | |
| 28 | EXPANSION VALVE ASSY | 9370947144 | 9370947144 | |
| 29 | COIL(EXPANSION VALVE) | 9900057039 | 9900057039 | |
| 31 | CASE(PWB)AS | 9375316013 | 9375316013 | |
| 33 | CASE(INVERTER) | 9375314019 | 9375314019 | |
| 35 | ACTPM | 9703457012 | 9703457012 | |
| 36 | THERMISTOR | 9704265012 | 9704265012 | |
| 37 | PWB ASSY | 9707121063 | 9707121063 | |
| 38 | PWB ASSY | 9707128062 | 9707128062 | |
| 39 | PWB ASSY | 9707257014 | 9707257014 | |
| 40 | TR PWB ASSY | 9707125085 | 9707125085 | |
| 41 | COIL,CHOKE | 9900366018 | 9900366018 | |
| 42 | TERMINAL | 9900203023 | 9900203023 | |
| 45 | DISCHARG TEMP THERMISTOR | 9704219114 | 9704219114 | |
| 46 | THERMISTOR(OUTDOOR TEMP) | 9900378028 | 9900378028 | |
| 47 | COMPRESSOR TEMP THERMISTOR | 9900156022 | 9900156022 | |
| 48 | HEAT EXCHANGER THERMISTOR | 9900374013 | 9900374013 | |

# STANDARD ACCESSORIES

| Name and Shape | Part No. |
|---|---|
| Wall hook bracket  | 9315023018 |
| Remote control unit  | 9315027160 |
| Remote control unit holder  | 9305642045 |
| Battery (penlight)  | 0600185534 |
| Cloth tape  | 9310519004 |
| Tapping screw (big)  | 0700076046 |
| Tapping screw (small)  | 0700019036 |
| Air cleaning filter  | 9312153060 |
| | 9311925071 |
| Air cleaning filter frame  | 9301102000 |